

ROUX ASSOCIATES INC



1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11749 TEL: 631-232-2600 FAX: 631-232-9898

June 11, 2002

Mr. Anthony Karziel
New York State Department of Environmental Conservation
Bureau of Construction Services
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Re: Installation of Product Recovery Wells and Completion of
Well Monitoring and Product Recovery Activities during May 2002
124-136 Second Avenue
Brooklyn, New York
Site No. V00405-2

Dear Mr. Karziel:

Roux Associates, Inc. (Roux Associates), on behalf of FC Gowanus, LLC, recently completed the installation of forty-three (43) product recovery wells and five (5) weekly well monitoring and product recovery events at the former manufactured gas plant (MGP) site at Second Avenue in Brooklyn, New York (Site). The work was performed pursuant to a Voluntary Cleanup Agreement (VCA) between the United States Postal Service (USPS) and the New York State Department of Environmental Conservation (NYSDEC) and in accordance with the "Revised Remedial Work Plan" (Work Plan) dated March 20, 2002, which was prepared by AKRF Engineering, P.C. (AKRF) and approved by the NYSDEC. The approximate well locations are shown in Figure 1. Because the proposed Site building will be constructed up to the property boundary, a total of seventeen (17) wells were installed through the 12th Street sidewalk.

General Scope of Work Completed

The Work Plan specified the installation of twenty-eight (28) product recovery wells (RW-1 through RW-28) to a depth of 50 feet below land surface (bls) (deep wells) at a 25-foot spacing along the northwest and southwest perimeter of the Site and two (2) shallow wells in the southwest corner of the Site, near the adjacent Pathmark, screened above the meadow mat layer (i.e., peat layer), which was usually encountered at

approximately 13 to 15 feet bls. In accordance with the Work Plan requirements to reduce the spacing between wells if product was observed in the drill cuttings, sixteen (16) additional deep wells (RW-29 through RW-44) were installed.

Because product was not observed in the drill cuttings of wells RW-23, RW-25 and RW-27, proposed wells RW-24, RW-26 and RW-28 were not installed, in accordance with the Work Plan, which allows an increase in the well spacing at locations where contamination is not observed during drilling. The removal of wells RW-24, RW-26 and RW-28 from the work scope was discussed in Roux Associates' April 22, 2002 Memorandum to the NYSDEC.

Because the peat layer was not encountered in the southwest corner of the Site between the Pathmark building and Gasholder No. 1, the two proposed shallow wells were not installed in that area. However, to capture any shallow free product present, wells RW-3, RW-4, RW-31 and RW-32 were completed with 35-foot long screens that extend from approximately ten to 45 feet bls. This work scope modification was approved by the NYSDEC.

At the NYSDEC's request, FC Gowanus agreed to install two other shallow product recovery wells near soil boring GH-31, which was advanced during the Hot Spot Delineation activities. Wells RW-1S and RW-2S were installed in the 12th Street sidewalk to satisfy NYSDEC's request (see Roux Associates' Hot Spot Delineation and Gasholder Characterization Results, April 26, 2002).

The following sections of this report provide a brief discussion of the drilling procedures, the well construction details, well development procedures, and the results of the weekly well monitoring and product recovery events that were performed during May 2002.

Drilling Procedures

Aquifer Drilling and Testing, Inc. (ADT), provided drilling services under subcontract to Roux Associates, using a hollow stem auger drill rig. Drilling was performed between March 18 and May 21, 2002. Prior to drilling, ADT constructed containment berms using wood and plastic to prevent soil and liquid from spilling onto uncontaminated surface fill. Split spoon samples were collected from each borehole and visually inspected by a Roux Associates' staff scientist for the presence of free product (i.e., coal tar) and lithology. Split spoon samples were collected from above the peat layer only to determine if free product was present before drilling into the peat. Each sample was also screened for volatile organic compounds (VOCs) using a photoionization detector (PID). The remainder of each borehole was logged from drill cuttings as they traveled up the

auger flights to the surface. Drill cuttings were placed in labeled and sealed 55-gallon drums for disposal at a later date. Lithologic descriptions, sample observations, and PID results are provided in the attached Well Construction Logs.

Well Construction

Once each borehole was advanced to the target depth (e.g., 50 feet), ADT constructed a well in the borehole. Each well was constructed of four-inch diameter schedule 40 polyvinyl chloride (PVC) riser pipe and 0.02-inch (i.e., 20-slot) slotted pipe (i.e., well screen). The deep wells were constructed with 25-foot long screens that extend from approximately 20 to 45 feet bls, except for wells RW-3, RW-4, RW-31 and RW-32, which were completed with longer screens that extend from approximately ten to 45 feet bls. Longer screens were used for these deep wells to capture shallow product instead of installing shallow wells for that purpose, because the peat layer was not observed in that area of the Site. A five-foot sump was attached to the bottom of each deep well to collect free product.

Shallow wells RW-1S and RW-2S were constructed above the peat layer with ten-foot screens that extend from approximately four to 14 feet bls and five to 15 feet bls, respectively. The sumps installed at the bottom of wells RW-1S and RW-2S were only two feet and one foot long, respectively, and extend into, but not completely through the peat layer.

After each well was installed, the annulus was filled with a No. 2 sand (i.e., 20-mesh sand) from the bottom of the sump to a minimum of two feet above the top of the screen followed by a minimum four-foot bentonite seal. The remainder of the annulus was filled with a cement/bentonite grout to approximately one foot bls. Because of the size constraints of the shallower wells, RW-1S and RW-2S have shorter bentonite seals and are sealed above the bentonite with cement only.

During drilling, heaving of the native formation materials (e.g., silt and sand) periodically occurred. As a result, the formation collapsed and filled a portion of the annular space between the well screen and the borehole wall in wells RW-16, RW-33, RW-35 and RW-37. Multiple attempts were made at re-drilling and constructing these wells, but because of the difficult drilling and recurring heaving, the wells were completed with the annular space partially filled with the native formation materials. The extent of the formation collapse is noted on the Well Construction Logs for each well.

The wells that were installed on the Site property were completed with a stand-up design protective steel casing. The sidewalk wells were completed with a bolt-down flush-

mount manhole and steel well box set in concrete. A locking watertight cap and padlock was installed on each well.

Well Development

Upon completion of their installation, all of the product recovery wells were vigorously surged and developed using a submersible pump until clear (non-turbid) water was produced or until at least five volumes of liquid were removed from the well. The water and product removed during development was contained in 55-gallon drums for later disposal by FC Gowanus.

Recovery Well Monitoring and Product Recovery

In accordance with the Work Plan, weekly well monitoring and product recovery was conducted on May 1, 7, 16, 23, 28 and 31, 2002. Prior to collecting any free product, liquid levels in each well were gauged using an electronic probe. Free product was manually collected using a bailer. The depth to water measurements and the amount of product recovered from each well is provided in Table 1. Table 2 provides a summary of the cumulative total amount of product recovered from each well during the period May 1 through May 31, 2002. Approximately 65 gallons of product have been recovered at the Site through May 31, 2002.

Traces of product (TP) are reported in Table 1 if coal tar was observed to be clinging to the bailer, but was not recoverable. Because the electronic probe was ineffective at accurately detecting free product and depth to water, free product thicknesses could not be measured and depth-to water measurements were not consistently obtained. Based on our experience and the experience of NYSDEC personnel, this is a common occurrence at coal tar-contaminated sites.

The volume of free product recovered was visually estimated while pouring the contents of the bailer (water and product) into a five-gallon bucket. The buckets were emptied into 55-gallon drums, which were sealed, labeled and stored onsite for disposal at a later date.

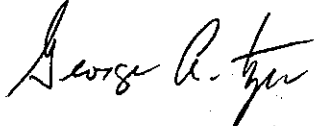
Monitoring and product recovery activities will continue to be performed weekly. Because the amount of product being recovered from wells RW-13 and RW-40 equals or exceeds the sump capacity (i.e., 3.25-gallons), these wells are currently being monitored twice per week, in accordance with the Work Plan. The results of the monitoring and product recovery activities will be reported in monthly progress reports.

Mr. Anthony Karwiel
June 11, 2002
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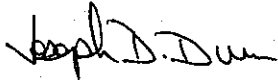
If you have any questions or require additional information, please call us at
(631) 232-2600.

Sincerely,

ROUX ASSOCIATES, INC.



George A. Tyers, C.P.G.
Senior Hydrogeologist /
Project Manager



Joseph D. Duminuco
Vice President /
Principal Hydrogeologist

Attachments

cc: Greg Lowe, FC Gowanus, LLC
Rockie Gajwani, FC Gowanus, LLC
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John Reilly, Esq., Keyspan
Warren Karp, Esq., Greenberg Traurig
Lindsay McGrady, Lowes

**Table 1. Summary of Product Recovery, Former MGP Site
Second Avenue, Brooklyn, New York**

Well Designation	Monitoring Date	Depth To Water (Ft bls)	Product Bailed (gallons)
RW-1S	5/1/02	1.82	0.00
	5/7/02	2.12	0.00
	5/16/02	2.22	0.00
	5/23/02	-	0.00
	5/28/02	2.11	0.00
Total Product Recovered			0.00
RW-2S	5/1/02	1.70	0.00
	5/7/02	1.72	0.00
	5/16/02	2.95	0.00
	5/23/02	-	0.00
	5/28/02	1.95	0.00
Total Product Recovered			0.00
RW-1	5/1/02	8.55	TP
	5/7/02	8.61	0.12
	5/16/02	9.42	0.00
	5/23/02	-	0.00
	5/28/02	8.79	TP
Total Product Recovered			0.12
RW-2	5/1/02	9.71	0.25
	5/7/02	9.95	0.12
	5/16/02	12.04	0.00
	5/23/02	-	TP
	5/28/02	9.69	TP
Total Product Recovered			0.37
RW-3	5/1/02	10.62	0.09
	5/7/02	10.41	0.50
	5/16/02	10.37	TP
	5/23/02	-	TP
	5/28/02	10.21	TP
Total Product Recovered			0.59
RW-4	5/1/02	11.31	0.09
	5/7/02	10.47	TP
	5/16/02	10.47	TP
	5/23/02	-	TP
	5/28/02	10.27	TP
Total Product Recovered			0.09
RW-5	5/1/02	10.80	0.06
	5/7/02	10.62	0.25
	5/16/02	10.63	TP
	5/23/02	-	TP
	5/28/02	10.48	0.00
Total Product Recovered			0.31

**Table 1. Summary of Product Recovery, Former MGP Site
Second Avenue, Brooklyn, New York**

Well Designation	Monitoring Date	Depth To Water (Ft bls)	Product Bailed (gallons)
RW-6	5/1/02	11.49	0.09
	5/7/02	11.29	TP
	5/16/02	11.36	TP
	5/23/02	-	TP
	5/28/02	11.15	0.00
Total Product Recovered			0.09
RW-7	5/1/02	11.42	0.00
	5/7/02	11.21	0.00
	5/16/02	-	TP
	5/23/02	-	0.00
	5/28/02	11.06	0.00
Total Product Recovered			0.00
RW-8	5/1/02	9.12	0.25
	5/7/02	9.95	0.50
	5/16/02	10.09	0.02
	5/23/02	-	TP
	5/28/02	9.91	0.02
Total Product Recovered			0.79
RW-9	5/1/02	10.60	1.25
	5/7/02	10.41	0.12
	5/16/02	10.71	0.02
	5/23/02	-	0.08
	5/28/02	9.35	0.19
Total Product Recovered			1.66
RW-10	5/1/02	9.78	1.75
	5/7/02	6.89	1.25
	5/16/02	14.34	2.00
	5/23/02	-	3.00
	5/28/02	9.62	1.25
Total Product Recovered			9.25
RW-11	5/1/02	12.30	1.50
	5/7/02	12.15	0.75
	5/16/02	11.60	0.05
	5/23/02	-	0.07
	5/28/02	12.17	2.50
Total Product Recovered			4.87
RW-12	5/1/02	12.50	2.00
	5/7/02	12.35	0.25
	5/16/02	12.89	0.06
	5/23/02	-	0.14
	5/28/02	12.53	0.66
Total Product Recovered			3.11

**Table 1. Summary of Product Recovery, Former MGP Site
Second Avenue, Brooklyn, New York**

Well Designation	Monitoring Date	Depth To Water (Ft bls)	Product Bailed (gallons)
RW-13	5/1/02	13.01	8.00
	5/7/02	12.65	6.00
	5/16/02	13.34	4.50
	5/23/02	-	6.50
	5/28/02	13.08	4.00
	5/31/02	-	3.00
<i>Total Product Recovered</i>			<i>32.00</i>
RW-14	5/1/02	11.98	0.06
	5/7/02	11.87	0.00
	5/16/02	12.91	0.02
	5/23/02	-	0.03
	5/28/02	12.07	0.04
<i>Total Product Recovered</i>			<i>0.15</i>
RW-15	5/1/02	6.71	0.50
	5/7/02	6.65	0.02
	5/16/02	7.00	0.01
	5/23/02	-	0.02
	5/28/02	6.94	0.01
<i>Total Product Recovered</i>			<i>0.56</i>
RW-16	5/1/02	4.55	0.00
	5/7/02	4.45	0.00
	5/16/02	4.69	TP
	5/23/02	-	0.01
	5/28/02	4.53	0.01
<i>Total Product Recovered</i>			<i>0.02</i>
RW-17	5/1/02	6.61	TP
	5/7/02	6.50	0.02
	5/16/02	7.06	TP
	5/23/02	-	TP
	5/28/02	6.80	TP
<i>Total Product Recovered</i>			<i>0.02</i>
RW-18	5/1/02	7.27	0.00
	5/7/02	7.18	0.00
	5/16/02	7.62	TP
	5/23/02	-	TP
	5/28/02	7.51	TP
<i>Total Product Recovered</i>			<i>0.00</i>
RW-19	5/1/02	6.68	0.00
	5/7/02	6.97	0.00
	5/16/02	7.11	0.00
	5/23/02	-	TP
	5/28/02	6.81	TP
<i>Total Product Recovered</i>			<i>0.00</i>

**Table 1. Summary of Product Recovery, Former MGP Site
Second Avenue, Brooklyn, New York**

Well Designation	Monitoring Date	Depth To Water (Ft bls)	Product Bailed (gallons)
RW-20	5/1/02	6.92	0.00
	5/7/02	6.77	0.00
	5/16/02	7.50	TP
	5/23/02	-	0.01
	5/28/02	7.02	TP
Total Product Recovered			0.01
RW-21	5/1/02	7.46	0.00
	5/7/02	7.35	0.00
	5/16/02	7.81	TP
	5/23/02	-	0.01
	5/28/02	7.65	0.01
Total Product Recovered			0.02
RW-22	5/1/02	7.70	0.02
	5/7/02	8.29	0.05
	5/16/02	7.73	TP
	5/23/02	-	TP
	5/28/02	7.89	0.02
Total Product Recovered			0.09
RW-23	5/1/02	6.58	0.00
	5/7/02	6.51	0.00
	5/16/02	6.63	0.00
	5/23/02	-	0.00
	5/28/02	6.61	0.00
Total Product Recovered			0.00
RW-25	5/1/02	7.34	0.00
	5/7/02	7.22	0.00
	5/16/02	7.57	0.00
	5/23/02	-	0.00
	5/28/02	7.37	0.00
Total Product Recovered			0.00
RW-27	5/1/02	7.17	0.00
	5/7/02		0.00
	5/16/02	7.33	0.00
	5/23/02	-	0.00
	5/28/02	7.15	0.00
Total Product Recovered			0.00
RW-29	5/1/02	11.19	0.00
	5/7/02	11.09	TP
	5/16/02	11.33	TP
	5/23/02	-	TP
	5/28/02	11.09	0.00
Total Product Recovered			0.00

**Table 1. Summary of Product Recovery, Former MGP Site
Second Avenue, Brooklyn, New York**

Well Designation	Monitoring Date	Depth To Water (Ft bls)	Product Bailed (gallons)
RW-30	5/7/02	10.82	1.00
	5/16/02	10.90	TP
	5/23/02	-	0.08
	5/28/02	10.79	TP
Total Product Recovered			1.08
RW-31	5/7/02	10.22	TP
	5/16/02	10.20	TP
	5/23/02	-	TP
	5/28/02	10.04	TP
Total Product Recovered			0.00
RW-32	5/7/02	10.01	TP
	5/16/02	10.02	TP
	5/23/02	-	TP
	5/28/02	9.84	0.01
Total Product Recovered			0.01
RW-33	5/7/02	9.71	0.00
	5/16/02	9.10	0.00
	5/23/02	-	0.01
	5/28/02	9.36	TP
Total Product Recovered			0.01
RW-34	5/16/02	10.35	0.06
	5/23/02	-	TP
	5/28/02	10.39	TP
Total Product Recovered			0.06
RW-35	5/16/02	9.60	TP
	5/23/02	-	0.08
	5/28/02	9.58	0.75
Total Product Recovered			0.83
RW-36	5/16/02	9.75	0.50
	5/23/02	-	0.05
	5/28/02	9.50	0.25
Total Product Recovered			0.80
RW-37	5/23/02	-	0.00
	5/28/02	-	0.00
Total Product Recovered			0.00
RW-38	5/23/02	-	0.00
	5/28/02	11.92	0.06
Total Product Recovered			0.06

**Table 1. Summary of Product Recovery, Former MGP Site
Second Avenue, Brooklyn, New York**

Well Designation	Monitoring Date	Depth To Water (Ft bls)	Product Bailed (gallons)
RW-39	5/23/02	-	0.00
	5/28/02	12.51	3.00
Total Product Recovered			3.00
RW-40	5/23/02	-	0.00
	5/28/02	12.37	3.25
	5/31/02	-	1.50
Total Product Recovered			4.75
RW-41	5/23/02	-	0.00
	5/28/02	7.05	0.00
Total Product Recovered			0.00
RW-42	5/23/02	-	0.00
	5/28/02	7.13	0.04
Total Product Recovered			0.04
RW-43	5/23/02	-	0.00
	5/28/02	7.04	TP
Total Product Recovered			0.00
RW-44	5/23/02	-	0.00
	5/28/02	7.54	TP
Total Product Recovered			0.00

TP - Trace Product

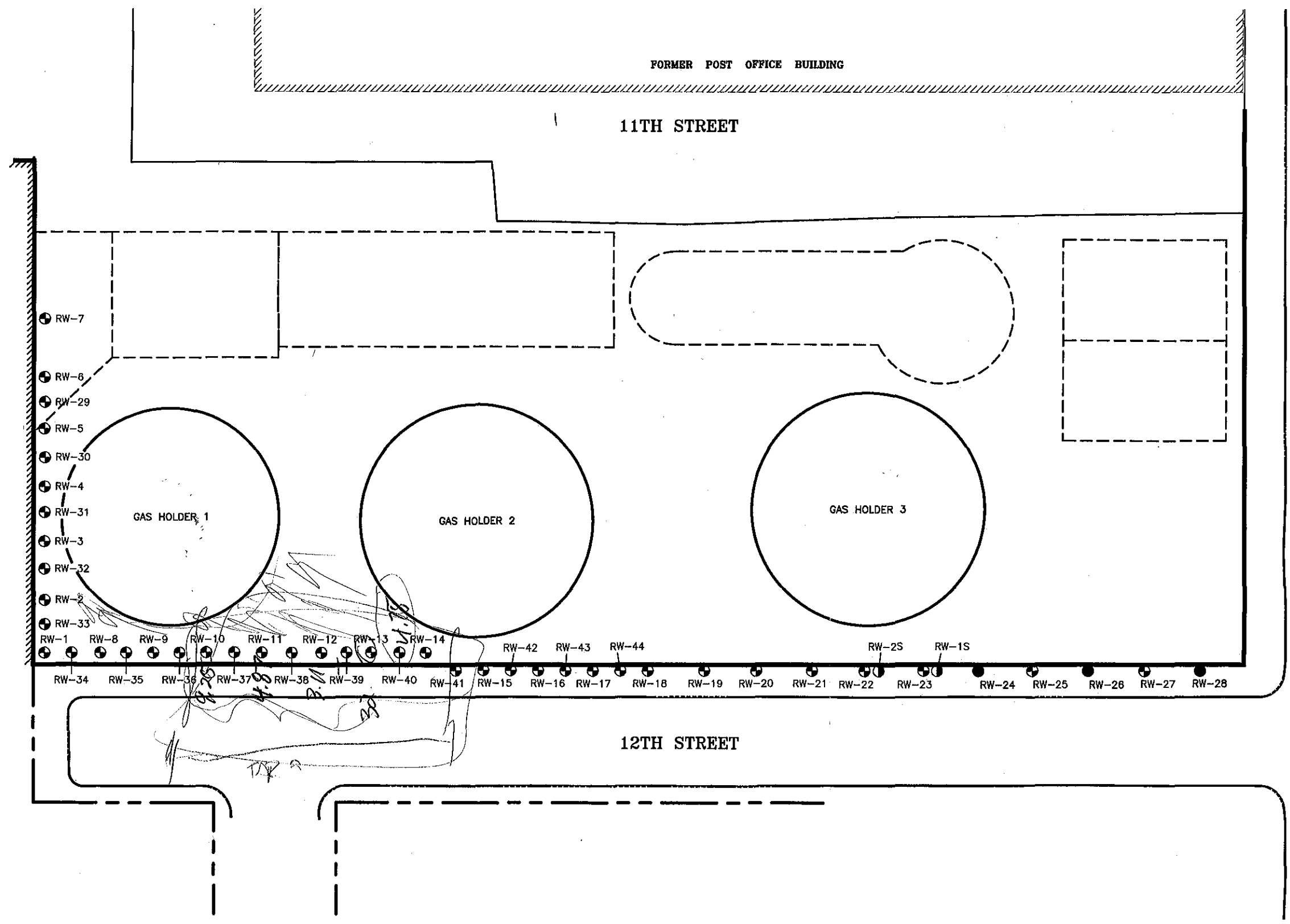
**Table 2. Total Product Recovered, May 1 Through May 31, 2002
Former Second Avenue MGP Site, Brooklyn, New York**

Well Designation	Product Recovered (gallons)
RW-1S	0
RW-2S	0
RW-1	0.12
RW-2	0.37
RW-3	0.59
RW-4	0.09
RW-5	0.31
RW-6	0.09
RW-7	0
RW-8	0.79
RW-9	1.66
RW-10	9.25
RW-11	4.87
RW-12	3.11
RW-13	32.00
RW-14	0.15
RW-15	0.56
RW-16	0.02
RW-17	0.02
RW-18	0
RW-19	0
RW-20	0.01
RW-21	0.02
RW-22	0.09
RW-23	0
RW-25	0
RW-27	0
RW-29	0
RW-30	1.08
RW-31	0
RW-32	0.01
RW-33	0.01

**Table 2. Total Product Recovered, May 1 Through May 31, 2002
Former Second Avenue MGP Site, Brooklyn, New York**

Well Designation	Product Recovered (gallons)
RW-34	0.06
RW-35	0.83
RW-36	0.8
RW-37	0
RW-38	0.06
RW-39	3.00
RW-40	4.75
RW-41	0
RW-42	0.04
RW-43	0
RW-44	0
<i>Total Product Recovered</i>	<i>64.76</i>

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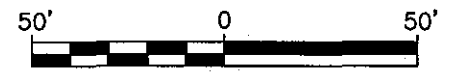
RW-1 ● APROXIMATE LOCATION OF DEEP PRODUCT COLLECTION WELL

RW-1S ● APROXIMATE LOCATION OF SHALLOW PRODUCT COLLECTION WELL

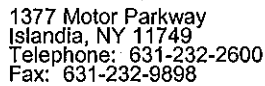
RW-24 ● WELL NOT INSTALLED

--- APPROXIMATE EXTENT OF FORMER BUILDINGS

NOTE:
WELLS RW-24, RW-26 AND RW-28 WERE DETERMINED TO BE NOT NECESSARY BASED ON OBSERVATIONS DURING DRILLING OF WELLS RW-23, RW-25 AND RW-27.



Title: APPROXIMATE LOCATIONS OF PRODUCT COLLECTION WELLS			
124-136 SECOND AVENUE BROOKLYN, NEW YORK			
Prepared For: FC GOWANUS LLC			
ROUX ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: G.T.	Date: 30MAY02	FIGURE 1
	Prepared by: G.M.	Scale: AS SHOWN	
	Project Mgr: G.T.	Office: NY	
	File No: FCR0114001	Project: FCR924Y03	



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WELL NO.		NORTHING		EASTING	
RW-1					
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY C. Battista		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / S. Miller		GEOGRAPHIC AREA On Site Along 12th Street			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/18/02-4/1/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF:	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK
(FT.)			/		#2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Brown fine to coarse SAND, some Gravel, trace Brick; dry to wet (fill)			
5				Strong odor
10	Brown fine to coarse SAND, some Silt, little Gravel, trace Brick; dry to wet (fill) No recovery	21.8		Sheen and strong odor
15	Brown to dark brown fine to coarse Sand, and Gravel, little Silt, little Wood; wet (fill) Brown to red fine to coarse SAND, some Silt, little Gravel, trace Brick, trace Concrete; wet (fill) Green to grey PEAT; moist	29.3 13.7		Thickness of peat interval interpreted from previous Site investigation
20	Dark gray Silt and fine Sand; wet	4.5		Strong odor
25	Dark gray Silt and fine Sand; wet	5.8		
30	Dark gray Silt and fine Sand, trace Gravel; wet	10.4		
35	Brown Silt and fine Sand; wet			Sheen and strong odor
40	Brown Silt and fine Sand; wet	79.4		Sheen and strong odor
45	Brown Silt and fine Sand; wet			Trace free product
50	Brown Silt and fine Sand; wet	30.1		Bottom of well 47.5 feet below land surface



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

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WELL CONSTRUCTION LOG

WELL NO. RW-2		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY C. Battista		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / S. Miller		GEOGRAPHIC AREA On Site Along Pathmark Wall			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/21/02-3/29/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC TOTAL LENGTH 25.0		DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, little Gravel, trace Silt, trace Brick, trace Coal Fragments; dry to wet (fill)			
10				Brown fine to coarse SAND, trace Silt, trace Gravel; wet (fill)		0.3	
15				Brown fine to medium SAND, trace Silt, trace Gravel; wet (fill)		0.3	
20				Brown fine to medium SAND, trace Silt, trace Gravel; wet (fill)		0.6	
25				Brown fine to medium SAND, trace Silt, trace Gravel, trace Wood; wet (fill)		0.1	
30				Brown fine to medium SAND, trace Silt, trace Gravel, trace Wood; wet (fill)		0.1	
35				Brown Silt and fine Sand, little coarse Gravel; wet		126	Strong odor
40				Brown Silt and fine Sand, little Gravel; wet		303	Strong odor
45				Brown Silt and fine Sand, little Gravel; wet		493	Trace free product
50				Brown Silt and fine Sand, little Gravel; wet		274	
55				Brown Silt and fine Sand, little Gravel; wet		311	Free product
60				Brown Silt and fine Sand, little Gravel; wet		893	Free product
65				Dark gray to brown fine SAND, little Silt; wet		>2000	Free product
70							Bottom of well 47.5 feet below land surface

BORING/WELL RECOVER-T.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-3		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA On Site Along Pathmark Wall	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		START-FINISH DATE 3/21/02-3/28/02	
		TOP OF WELL CASING		TOTAL LENGTH 35.0	
		TOP & BOTTOM SCREEN		DIA. 4-inch	
				SLOT SIZE 20-Slot	
				GRAVEL PACK #2	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Cement/Bentonite Grout	Brown fine to coarse SAND, trace Gravel, trace Brick; wet at 5 (fill)			
10	Bentonite Chips	Brown fine to coarse SAND, little Gravel, little Brick, trace Silt; wet (fill)	0.0		
15	4-inch PVC Well Casing	Brown fine to coarse SAND, trace Gravel, trace Silt; wet (fill)	1.4		
20	20-Slot PVC Well Screen	Brown fine to medium SAND, trace Silt, trace Gravel; wet (fill)	5.7		Strong odor and trace free product
25	#2 Sand	Brown fine to medium SAND, trace Silt, trace Gravel; wet (fill)	1.4		Trace free product
30		Brown fine to coarse SAND, little Silt; wet	27.4		Odor
35		Brown fine to coarse SAND, little Silt, trace Gravel; wet	15.1		Odor
40		Brown fine to coarse SAND, little Silt, trace Gravel; wet	152		Free product
45		Brown SILT, some fine Sand, trace coarse Sand; wet	98.1		Odor and free product
50	5-foot PVC Sump	Brown fine SAND, little Silt, trace Gravel; wet	237		Odor and free product
50	Push on PVC Well Cap	Brown fine SAND, little Silt, trace Gravel; wet	1681		Free product
					Bottom of well 50 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-4		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		On Site Along Pathmark Wall			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/21/02-3/28/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 35.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	6-Inch Locking Steel Protective Stand Pipe				
5	4-inch Locking Test Well Plug				
5	CEMENT	Brown fine to coarse SAND, trace Brick, trace Silt, trace Gravel; wet at 5 (fill)			
5	Cement/Bentonite Grout				
5	Bentonite Chips				
10	4-inch PVC Well Casing	Brown fine to coarse SAND, trace Brick, trace Silt, trace Gravel; wet (fill)	0.1		
10		Brown fine to coarse SAND, trace Brick, trace Silt, trace Gravel; wet (fill)	1.6	Odor	
15		Brown fine to coarse SAND, trace Brick, trace Silt, trace Gravel; wet (fill)	1.6	Odor	
15		Brown fine to coarse SAND, trace Brick, trace Silt, trace Gravel; wet (fill)	0.9	Slight odor	
20		Brown fine to medium SAND, trace Gravel, trace Silt; wet	1.9		
20		Brown fine to medium SAND, trace Gravel; wet (fill)	4.7	Black staining and strong Odor	
25	20-Slot PVC Well Screen	Gray fine SAND, little Wood; wet (fill)	26.8		
25		Brown fine to coarse SAND, little Silt, trace Gravel; wet			
25		Brown fine to coarse SAND, some Silt, trace Gravel; wet	7.2		Odor and trace free product
30	#2 Sand	Brown fine to coarse SAND, some Silt, trace Gravel; wet	5.6		Odor and trace free product
35		Brown fine to coarse SAND, some Silt, trace Gravel; wet	14.9		Odor and trace free product
40		Brown fine to coarse SAND, some Silt, trace Gravel; wet	35.1		Free product
45		Brown fine to coarse SAND, some Silt, trace Gravel; wet	87.4		Free product
50	5-foot PVC Sump				
50	Push on PVC Well Cap				
					Bottom of well 50 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GOT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-5		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY C. Battista		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / S. Miller				On Site Along Pathmark Wall	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		START-FINISH DATE 3/21/02-3/27/02	
		TOP OF WELL CASING		TOTAL LENGTH 25.0	
		TOP & BOTTOM SCREEN		DIA. 4-inch	
				SLOT SIZE 20-Slot	
				GRAVEL PACK #2	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Cement	Brown coarse to fine SAND, trace Gravel, trace Brick, trace Silt; dry to wet (fill)			
10	Cement/Bentonite Grout 4-inch PVC Well Casing	Brown fine SAND, trace Silt, trace Gravel; wet (fill)	0.0		
15	Bentonite Chips	Brown fine SAND, trace Silt, trace Gravel; wet (fill)	3.3		
		Brown fine SAND, little Silt, trace Gravel; wet (fill)	9.5		Black staining
		No recovery			
20		Green to gray Peat and Clay, trace Sand; wet	14.6		Thickness of peat interval interpreted from previous Site investigation Strong odor
		Brown fine to coarse SAND, little Silt, little Gravel; wet	2.6		
25		Brown fine to coarse SAND, some Silt; wet	1.7		Strong odor
30	20-Slot PVC Well Screen	Brown fine to coarse SAND, some Silt, trace Gravel; wet			Strong odor
35	#2 Sand	Brown fine to coarse SAND, some Silt, trace Gravel; wet	106		Trace free product
40		Brown fine to coarse SAND, some Silt; wet	134		Free product
45		Brown Silt and fine Sand; wet	281		Odor and free product
50	5-foot PVC Sump Push on PVC Well Cap		375		

Bottom of well 50 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/1/02



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WELL CONSTRUCTION LOG

WELL NO. RW-6		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		On Site Along Pathmark Wall			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/21/02-3/25/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE
					GRAVEL PACK #2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, trace Gravel, trace Brick, trace Silt; dry to wet (fill)			
10				Brown fine SAND, little Silt, trace Brick; wet (fill)	1.6		Odor and Black Staining
15				Green to gray Peat and Clay, trace brown Sand; moist	7.3		Thickness of peat interval interpreted from previous Site investigation
20				Fine SAND, trace Gravel, trace Silt; wet	5.9		Black staining Odor
25				Gray fine SAND, little Silt, trace Gravel; wet	1.9		Black staining Odor
30				Gray fine SAND, little Silt, trace Gravel; wet	4.7		Slight Odor
35				Grey SILT, Some fine Sand; wet	156		Odor
40				Brown to green fine SAND, some Silt; wet	350		Odor
45				Brown to green fine SAND, some Silt; wet	1254		Odor
50				Brown to green fine SAND, some Silt; wet	1824		Odor

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02

5-foot PVC Sump

Push on PVC Well Cap

Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-7		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY C. Battista		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / S. Miller		GEOGRAPHIC AREA On Site Along Pathmark Wall			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-Inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/21/02-3/25/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE
					#2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, trace Gravel, trace Brick, trace Silt; dry to wet (fill)			
10				No recovery			
15				Fine SAND, some Gravel, trace Silt; wet (fill)	0.7		Black staining
20				Brown fine SAND, little Silt; wet (fill)	1.4		Black staining
25				Brown fine SAND, little Silt; wet (fill)	1.9		Odor and black staining
30				Green to gray Peat and Clay; wet	7.3		Odor
35				Brown fine to coarse SAND, some Silt, trace Gravel; wet	10.2		Thickness of peat interval interpreted from previous Site Investigation
40				Brown fine to coarse SAND, some Silt, trace Gravel; wet	11.7		Odor
45				No recovery			
50				Dark Gray fine to medium SAND, some Silt; wet	27.1		
55				Dark Gray fine to medium SAND, some Silt, little Gravel; wet	21.0		Odor
60				Dark gray Silt and fine Sand; wet	30.6		Sheen and odor

Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-8		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY C. Battista		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / S. Miller		On Site Along 12th Street			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/22/02-4/2/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	6-inch Locking Steel Protective Stand Pipe 4-inch Locking Test Well Plug CEMENT	Brown fine to coarse fine SAND, trace Gravel, trace Brick, trace Silt; dry to wet (fill)			
10	Cement/Bentonite Grout 4-inch PVC Well Casing	Brown fine to coarse SAND, trace silt, trace concrete; wet (fill) Brown fine to medium SAND, trace Silt; wet (fill) Brown PEAT; wet			Black staining and trace free product Thickness of peat interval interpreted from previous Site investigation
15	Bentonite Chips	Brown fine to coarse SAND, little Silt, trace Gravel; wet		38.5	
20		Brown fine to coarse SAND, little Silt; wet		17.1	Strong odor and trace free product Slight odor and Sheen
25		Brown fine to coarse SAND, little Silt, trace Gravel; wet		0.0	Slight odor and Sheen
30	20-Slot PVC Well Screen	Brown to dark gray fine to medium SAND, some Silt, little Clay; wet		333	Odor
35	#2 Sand	Brown to dark gray fine to medium SAND, some Silt, little Clay; wet		235	Odor
40		Dark gray to brown fine SAND, little Silt; wet		427	Odor
45		Dark gray to brown fine SAND, little Silt; wet		236	Odor
50	5-foot PVC Sump Push on PVC Well Cap				Bottom of well 49.5 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/1/02



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WELL CONSTRUCTION LOG

WELL NO. RW-9		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA On Site Along 12th Street	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/22/02-4/2/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	8-inch Locking Steel Protective Stand Pipe				
5	4-inch Locking Test Well Plug	Brown fine to coarse SAND, trace Gravel, trace Brick, trace Silt; dry to wet (fill)			
10	Cement/Bentonite Grout	Brown WOOD; wet (fill)		120	Free product
15	4-inch PVC Well Casing	Brown fine SAND, little Silt, trace Gravel; wet (fill)		180	Black staining
20	Bentonite Chips	Green to tan fine to medium SAND, little Silt; wet (fill)		109	Trace free product
25		Green to brown fine SAND, some Silt, trace Peat; wet (fill)		57.6	
30		Brown PEAT; moist			Thickness of peat interval interpreted from previous Site investigation
35		Black fine to coarse SAND, little Gravel; wet		84.9	Odor and free product
40		Black fine to coarse SAND, some Silt, trace Gravel; wet		28.5	Black staining
45	20-Slot PVC Well Screen	Black to gray SILT, little fine Sand; wet			Trace free product
50	#2 Sand	Brown Silt and fine Sand, trace coarse Sand; wet		66.8	Black staining
55		Brown Silt and fine Sand, trace coarse Sand; wet		28.2	Odor and trace free product
60		Brown Silt and fine Sand, trace coarse Sand; wet		19.7	Odor and sheen
65		Brown Silt and fine Sand, trace coarse Sand; wet		27.1	Odor and sheen
70	5-foot PVC Sump				
75	Push on PVC Well Cap				
80					Bottom of well 49.5 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/1/02



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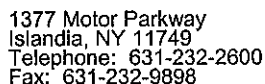
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WELL CONSTRUCTION LOG

WELL NO. RW-10		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY R. Kovacs		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				On Site Along 12th Street	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/22/02-4/1/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF:	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK
(FT.)			1		#2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, trace Gravel, trace Silt, trace Brick; dry to wet (fill)			
10				Green to brown fine SAND, little Silt, trace Gravel; wet (fill)	8.2	Black staining	
15				Green to brown fine SAND, little Silt; wet (fill)	8.1	Black staining	
20				Green to brown fine SAND, little Silt; wet (fill)	6.0	Black staining	
25				Green to brown fine to coarse SAND, little Silt, little Peat at 18; wet (fill)	8.7	Black staining	
30				Brown PEAT; moist	54.0	Thickness of peat interval interpreted from previous Site investigation	
35				Brown to light brown fine SAND, some Silt; wet	59.0	Odor and sheen	
40				Brown to reddish brown fine to medium SAND, some Silt; wet	96.5	Free product	
45				Brown to light brown fine to medium SAND, some Silt; wet	219	Odor and free product	
50				Brown fine to medium SAND, some Silt; wet	110	Odor and free product	
				Brown SILT, some medium Sand; wet	172	Odor and free product	
				Brown SILT, some fine to medium Sand; wet	162	Odor and free product	
							Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL NO. RW-11		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site			LOCATION 124-136 2nd Avenue		
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams			GEOGRAPHIC AREA On Site Along 12th Street		
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon
CASING MAT./DIA.		SCREEN:		START-FINISH DATE 3/22/02-3/29/02	
SCH 40 PVC / 4-inch		TYPE Slotted		MAT. SCH 40 PVC	TOTAL LENGTH 25.0
ELEVATION OF:		DIA. 4-inch		SLOT SIZE 20-Slot	
(FT.)		GROUND SURFACE		TOP OF WELL CASING	TOP & BOTTOM SCREEN
				GW SURFACE	GRAVEL PACK
					#2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0				Brown fine to coarse SAND, little Gravel, trace Brick, trace Silt; wet at 6 (fill)			
5							
10				Brown fine to coarse SAND, little Gravel, trace Brick, trace Silt; wet (fill)		50.0	Black staining
15				Brown fine to coarse SAND, little Gravel, trace Brick, trace Silt; wet (fill)		71.9	Black staining
20				Brown fine to medium SAND, little Gravel, little Silt; wet (fill)		43.9	
25				Brown fine to coarse SAND, trace Gravel, trace Silt, trace Brick; wet (fill)		31.2	
30				Brown PEAT; moist		138	Thickness of peat interval interpreted from previous Site investigation
35				Brown fine to coarse SAND, little Silt, trace Gravel; wet		7.2	
40				Brown fine to coarse SAND, some Silt; wet		7.2	Odor and trace free product
45				Brown fine to coarse SAND, some Silt; wet		23.2	Trace free product
50				Brown fine to coarse SAND, some Silt; wet		17.6	Trace free product
55				Brown Silt and fine Sand, trace coarse Sand, trace Gravel; wet		1124	Trace free product
60				Brown Silt and fine Sand, trace coarse Sand, trace Gravel; wet		280	

Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-12		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		On Site Along 12th Street			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 3/22/02-3/27/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	6-inch Locking Steel Protective Stand Pipe	Brown fine to coarse SAND, trace Gravel, trace Silt, trace Brick; dry to moist (fill)			
10	4-inch Locking Test Well Plug	BRICK; dry (fill) Brown fine to coarse SAND, some Gravel, trace Brick, trace Silt; wet at 7 (fill)			
15	Cement/Bentonite Grout	Brown fine to coarse SAND, little Silt, trace Gravel; wet (fill)		55.3	Sheen and odor
20	4-inch PVC Well Casing	Brown fine to coarse SAND, little Silt, little Gravel; wet (fill)		72.2	Slight odor
25	Bentonite Chips	Brown fine to coarse SAND, little Silt, little Gravel; wet (fill)		74.9	Slight odor
30		Brown fine to coarse SAND, some Gravel, little Silt; wet (fill)		1.7	Thickness of peat interval interpreted from previous Site investigation
35		Brown PEAT; moist		11.7	
40		Brown fine to coarse SAND, some Silt, trace Gravel; wet		19.3	
45		Brown fine to coarse SAND, some Silt, trace Gravel; wet		4.1	
50		Brown fine to coarse SAND, some Silt, trace Gravel; wet		35.1	Odor
		Brown fine to coarse SAND, some Silt, trace Gravel; wet		174	Odor and trace free product
		Brown fine to coarse SAND, some Silt, trace Gravel; wet		294	Odor and trace free product
					Bottom of well 50 feet below land surface

BORINGWELL RECOVER-1 GPJ ROUX GDT 6/11/02



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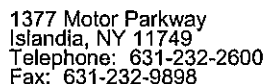
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WELL CONSTRUCTION LOG

WELL NO. RW-13		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA On Site Along 12th Street	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		MAT. SCH 40 PVC	TOTAL LENGTH 25.0
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	TOP & BOTTOM SCREEN
				GW SURFACE	GRAVEL PACK
					#2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Brown fine to coarse SAND, trace Gravel, trace Silt, trace Brick; dry to moist (fill)			
5	Brick and Concrete; dry (fill)			
8	Brown fine to coarse Sand and Brick; wet (fill)		80.8	Black staining
10	Brown PEAT; moist			
10	Brown PEAT; moist		73.9	
15	Fine SAND, some Silt, trace Gravel; wet		21.7	Black staining
15	Brown to green fine SAND, some Silt; wet		17.1	Odor
20	Brown fine SAND, little Silt; wet		9.7	Slight odor
25	Brown SILT, little fine Sand, trace Gravel; wet		118	Odor and trace free product
30	Brown SILT, little fine Sand, trace Gravel; wet		15.6	Odor and trace free product
35	Brown fine SAND, some Silt; wet		5.3	Odor
40	Brown to green SILT, little fine Sand; wet		459	Odor and trace free product
45	Brown SILT, some Sand; wet		154	Odor
50				Bottom of well 50 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/11/02



WELL CONSTRUCTION LOG

WELL NO. RW-14		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site			LOCATION 124-136 2nd Avenue		
APPROVED BY G. Tyers		LOGGED BY C. Battista		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / S. Miller			GEOGRAPHIC AREA On Site Along 12th Street		
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD Mobile Drill B-61 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		TOTAL LENGTH 25.0	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	
				TOP & BOTTOM SCREEN	
				GW SURFACE	
				GRAVEL PACK #2	
				SLOT SIZE 20-Slot	

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	6-inch Locking Steel Protective Stand Pipe			
0	4-inch Locking Test Well Plug			
0	Cement			
5	Brown fine to coarse SAND, little Gravel, trace Silt; dry (fill)		49.5	
5	Brown fine to coarse SAND, little Gravel, trace Silt; dry to moist (fill)		45.9	
5	Brown fine to coarse SAND, little Gravel, trace Silt; wet (fill)			
5	Brown PEAT; moist			
10	Brown PEAT; moist to wet		1.3	
15	Dark brown SAND, some Silt, trace Peat; wet		2.7	
20	Dark brown PEAT; moist to wet		125	
25	Dark brown fine SAND, little Silt; wet		147	Odor and trace free product
30	Dark brown fine SAND, little Silt; wet		413	Sheen
35	Dark brown fine SAND, little Silt; wet		475	Trace free product
40	Dark brown fine SAND, little Silt; wet		>2000	Sheen
45	Dark brown fine SAND, little Silt; wet		524	
50	Bottom of well 50 feet below land surface			



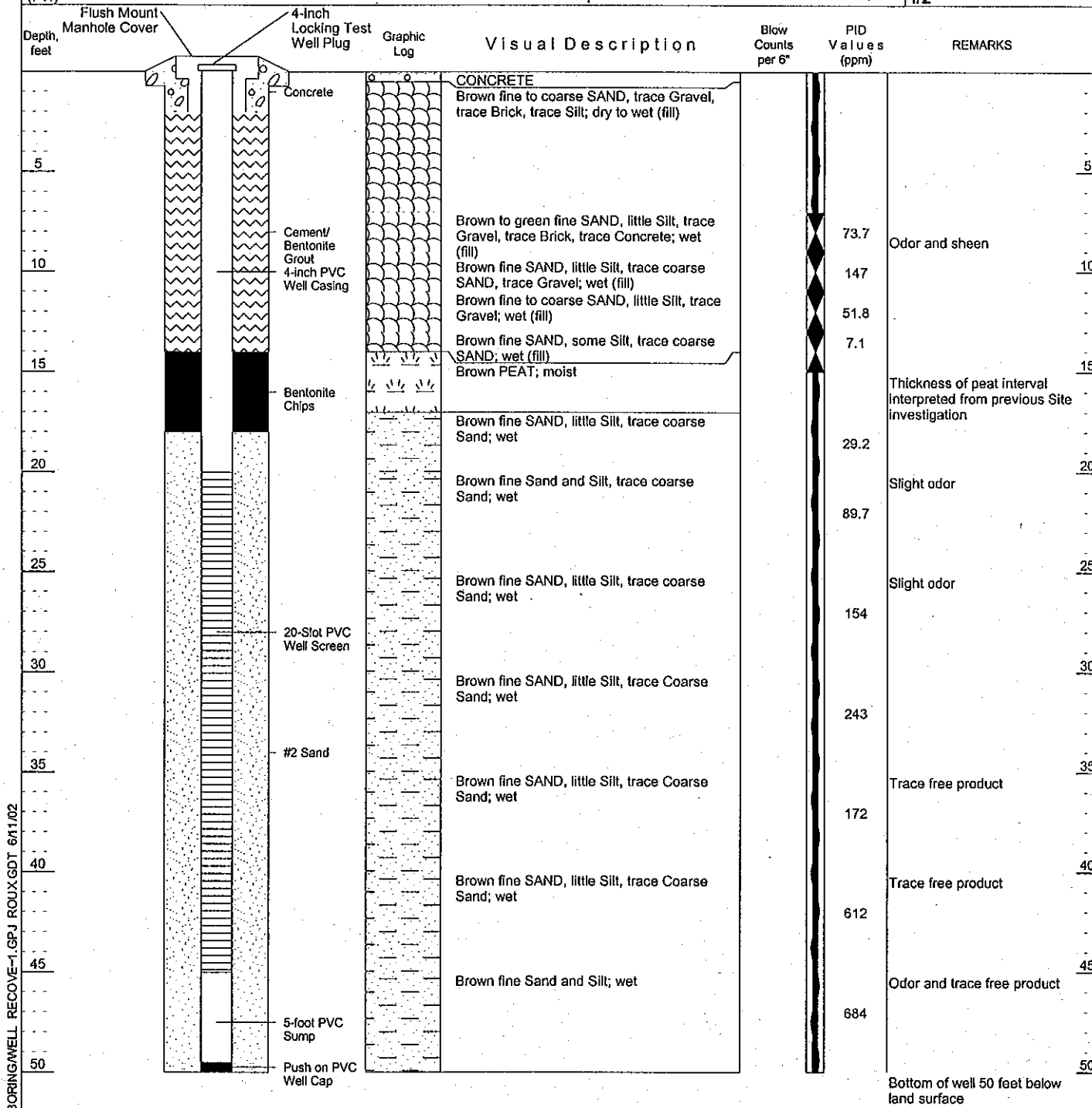
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WELL CONSTRUCTION LOG

WELL NO. RW-15		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	
		TOP & BOTTOM SCREEN		GW SURFACE	
				GRAVEL PACK #2	
		MAT. SCH 40 PVC		TOTAL LENGTH 25.0	
		DIA. 4-inch		SLOT SIZE 20-Slot	
				START-FINISH DATE 4/4/02-4/4/02	



BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-16		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY C. Battista		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		Off Site 12th Street Sidewalk			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/5/02-4/5/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Concrete			
5	#2 Sand		7.9	Slight odor
10	4-inch PVC Well Casing		5.8	
15			4.1	
15			26.4	
20	Brown Silt and fine Sand, little Gravel; wet			Thickness of peat interval interpreted from previous Site investigation
25	Brown Silt and fine Sand, little Gravel; wet		11.5	odor
30	Brown Silt and fine Sand, little Gravel; wet			odor
35	Brown Silt and fine Sand, little Gravel; wet		6.1	
40	Dark gray fine SAND, some Silt, little Clay; wet		10.0	odor
45	Dark gray fine SAND, some Silt, little Clay, little Gravel; wet		62.3	
45			4.4	Trace free product
50				Bottom of well 49 feet below land surface

BORINGWELL RECOVER-1 GPJ ROUX GDT 6/11/02



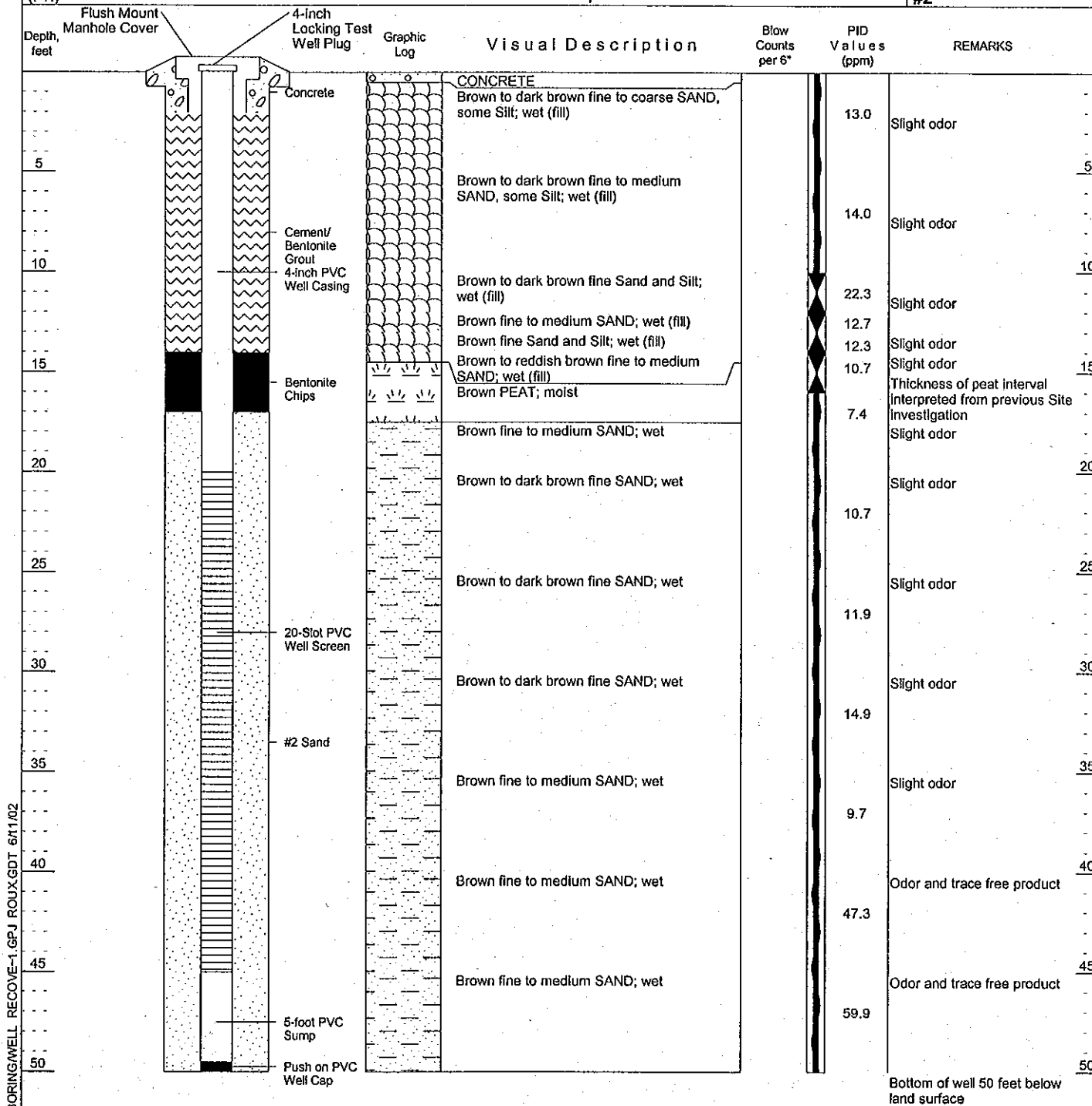
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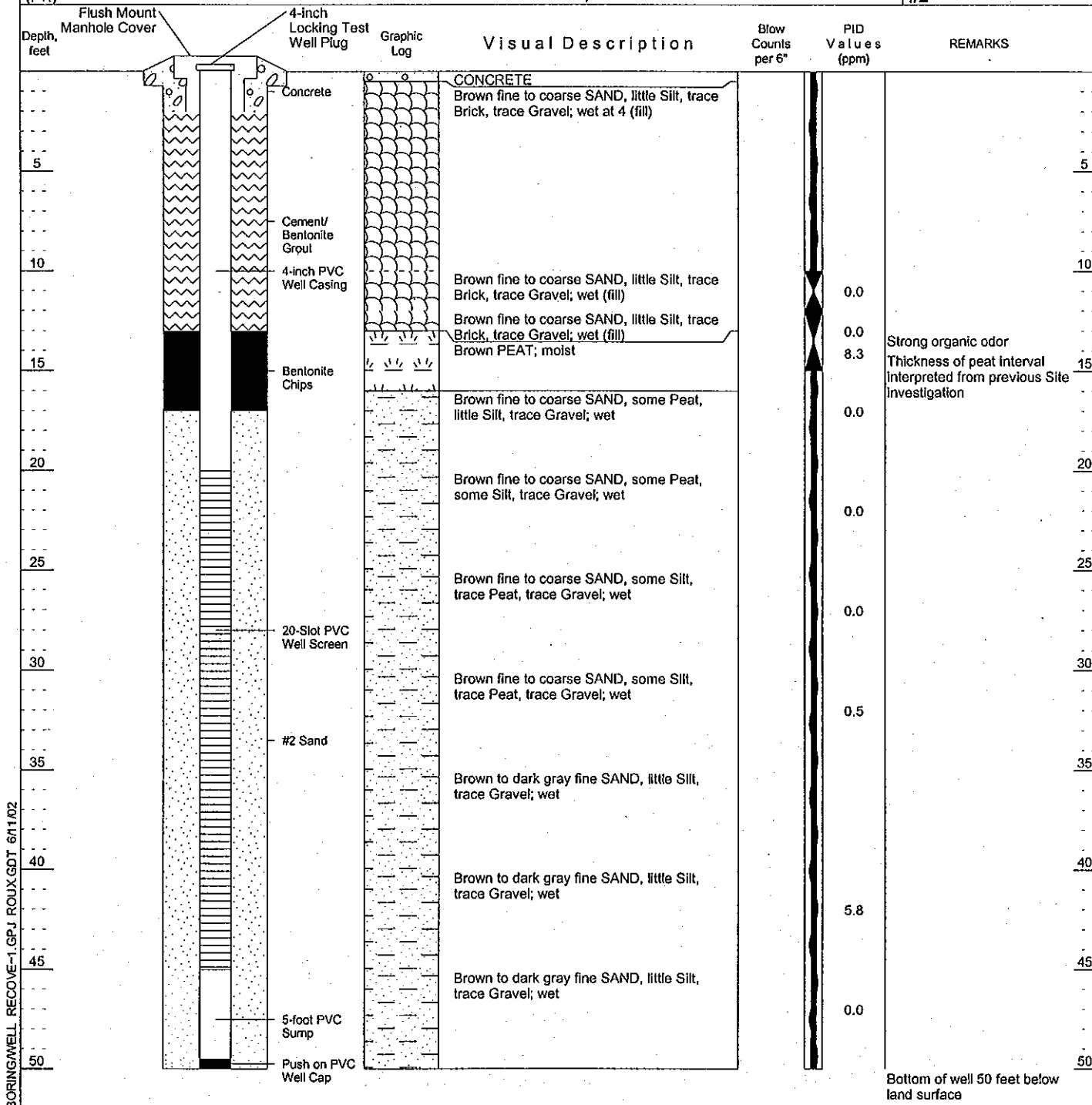
WELL CONSTRUCTION LOG

WELL NO. RW-17		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY R. Kovacs		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	
		TOP & BOTTOM SCREEN		GW SURFACE	
				GRAVEL PACK #2	
		MAT. SCH 40 PVC		TOTAL LENGTH 25.0	
		DIA. 4-inch		SLOT SIZE 20-Slot	
				START-FINISH DATE 4/9/02-4/9/02	



WELL CONSTRUCTION LOG

WELL NO. RW-18		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY C. Battista		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA Off Site 12th Street Sidewalk			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/19/02-4/19/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC		TOTAL LENGTH 25.0	DIA. 4-inch
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	SLOT SIZE 20-Slot GRAVEL PACK #2





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WELL CONSTRUCTION LOG

WELL NO. RW-19		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		START-FINISH DATE 4/18/02-4/18/02	
		TOP OF WELL CASING			
		TOP & BOTTOM SCREEN			
		MAT. SCH 40 PVC		TOTAL LENGTH 25.0	
		DIA. 4-inch		SLOT SIZE 20-Slot	
				GRAVEL PACK #2	

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Concrete			
5	Brown fine to coarse SAND, little Silt, trace Brick, trace Gravel; wet at 4 (fill)			
10	Brown fine SAND, trace Silt, trace coarse Sand, trace Gravel; moist (fill)	0.9		
15	Peat and green-grey CLAY; moist	0.7		Thickness of peat interval interpreted from previous Site investigation
20	Brown fine SAND, little Silt, trace Gravel; wet	1.8		
25	Brown fine SAND, little Silt; wet	0.0		
30	Brown fine SAND, little Silt; wet	0.0		Odor
35	Brown fine SAND, little Silt, trace coarse Sand; wet	0.7		Odor
40	Brown fine SAND, little Silt, trace coarse Sand; wet	0.0		Odor
45	Brown fine SAND, little Silt; wet	0.0		Odor
50	Brown fine SAND, little Silt; wet	0.0		Odor

Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



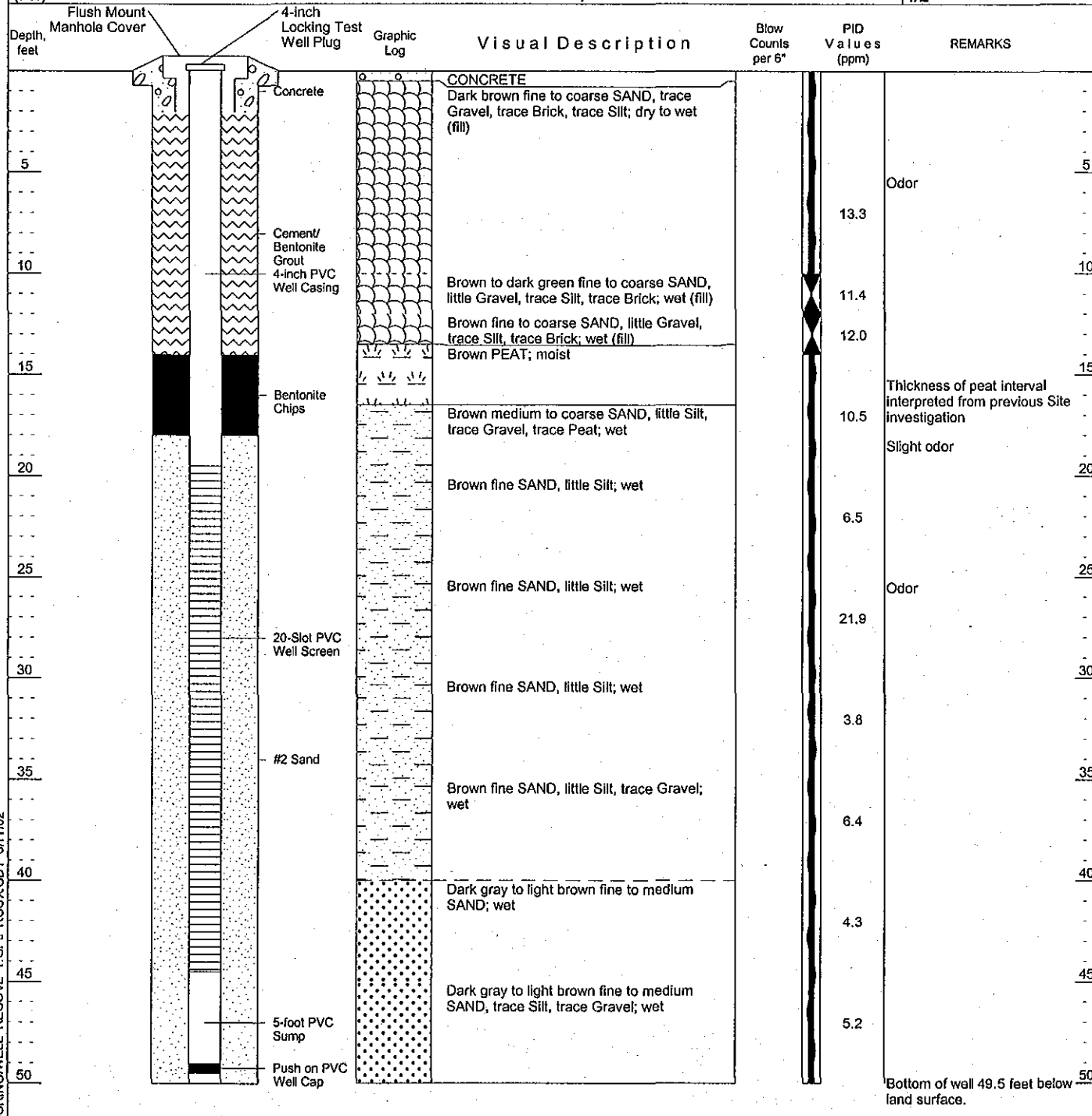
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WELL CONSTRUCTION LOG

WELL NO. RW-20		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY C. Battista		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN TYPE Slotted		MAT. SCH 40 PVC TOTAL LENGTH 25.0 DIA. 4-inch SLOT SIZE 20-Slot	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	TOP & BOTTOM SCREEN
				GW SURFACE	GRAVEL PACK #2



BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/11/02



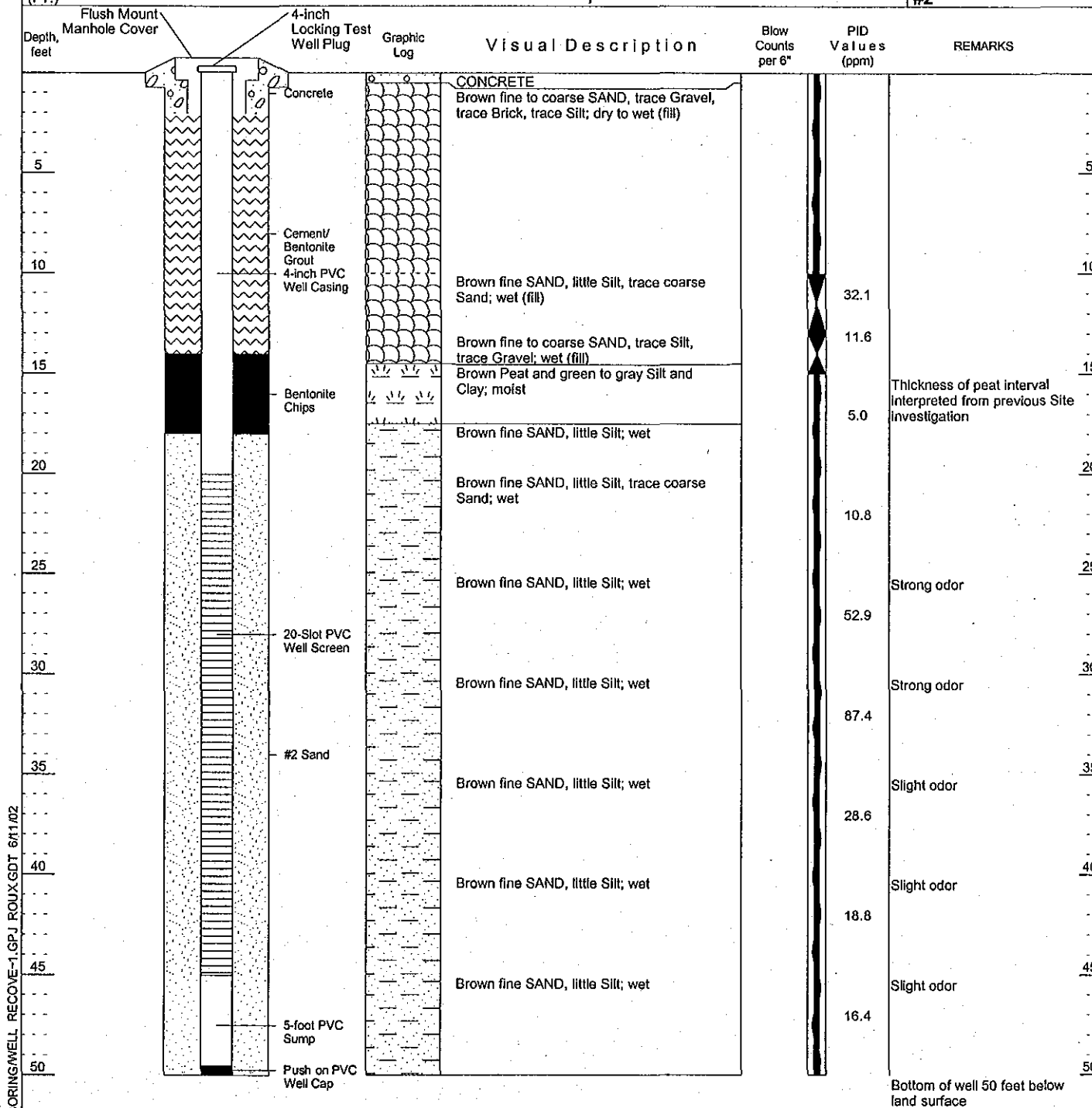
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WELL CONSTRUCTION LOG

WELL NO. RW-21		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	
		TOP & BOTTOM SCREEN		GW SURFACE	
				GRAVEL PACK #2	
		MAT. SCH 40 PVC		TOTAL LENGTH 25.0	
		DIA. 4-inch		SLOT SIZE 20-Slot	





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WELL CONSTRUCTION LOG

WELL NO. RW-22		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA Off Site 12th Street Sidewalk			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/15/02-4/15/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-Inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Concrete			
5	Brown fine to coarse SAND, trace silt, trace Brick, trace Concrete, trace Gravel; dry to wet (fill)			
10	Brown fine SAND, trace Silt; wet (fill)	699		
15	Brown fine to coarse SAND, trace Silt; wet (fill)	>2000		Odor and black staining
20	Brown fine SAND, little Silt; wet (fill)	5.7		
25	PEAT, Green-Gray Clay and fine Sand	3.7		Thickness of peat interval interpreted from previous Site investigation
30	Brown to gray fine SAND, little Silt, trace coarse Sand, trace Gravel; wet	27.8		
35	Brown to gray fine SAND, little Silt, trace coarse Sand, trace Gravel; wet	0.0		
40	Brown to gray fine SAND, little Silt, trace coarse Sand, trace Gravel; wet	11.9		
45	Brown to gray fine SAND, little Silt, trace coarse Sand, trace Gravel; wet	0.0		
50	Brown fine SAND, little silt; wet	0.0		
55	Brown fine SAND, little silt; wet	2.1		
60	Brown fine SAND, little silt; wet	0.0		

Bottom of well 50 feet below land surface

BORING/WELL RECOVERIES: LCPJ ROUX/GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-23		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				OFF SITE 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/10/02-4/10/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Concrete			
5	Brown fine to coarse SAND, trace Brick, trace Concrete, trace Gravel; dry to wet (fill)			
10	Brown fine to coarse SAND, little Silt, trace Gravel; wet (fill)		1354	Odor and trace free product
15	Brown fine Sand and Silt, trace coarse Sand; wet (fill)		72.8	Odor
15	Brown fine SAND, little Silt, trace Gravel; wet (fill)		352	Odor
20	PEAT and Green-Gray CLAY, trace Shells; moist			Thickness of peat interval interpreted from previous Site investigation
20	Brown fine to coarse SAND, little Silt, trace Gravel; wet		92.5	Odor
25	Brown fine to coarse SAND, little Silt, trace Gravel; wet		50.7	
25	Brown fine to coarse SAND, little Silt, trace Gravel; wet			Odor
30	Brown fine to coarse SAND, little Silt; wet		25.2	
30	Brown fine to coarse SAND, little Silt; wet		40.1	Odor
35	Brown fine to coarse SAND, little Silt; wet			Odor
35	Brown fine to coarse SAND, little Silt; wet		13.7	
40	Brown fine to coarse SAND, little Silt; wet			Odor
40	Brown fine to coarse SAND, little Silt; wet		9.6	
45	Brown fine to coarse SAND, some Silt; wet			Odor
45	Brown fine to coarse SAND, some Silt; wet		12.7	
50				Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1 GPJ ROUX GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-25		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/11/02-4/11/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Concrete			
5	Brown fine to coarse SAND, trace Brick, trace Concrete, trace Gravel; dry to wet (fill)			
10	Brown fine SAND, little Silt, trace Gravel; wet (fill)	8.1		
15	Brown fine to coarse SAND, little Silt, trace Gravel; wet (fill)	198	Odor	
20	Brown fine to coarse SAND, little Silt, trace Gravel; wet (fill)	478	Odor	
25	PEAT and Green-Gray CLAY; moist			
30	Brown fine to coarse SAND, little Silt, trace Gravel; wet	518	Odor	Thickness of peat interval interpreted from previous Site investigation
35	Brown fine to coarse SAND, little Silt, trace Gravel; wet	610		
40	Brown fine to coarse SAND, little Silt; wet	31.4		
45	Brown fine to coarse SAND, little Silt; wet	231	Odor	
50	Brown fine SAND, little Silt, trace coarse Sand; wet	315	Odor	
55	Brown fine SAND, some Silt, trace coarse Sand; wet	136	Odor	
60	Brown fine Sand and Silt; wet	246	Odor	

Bottom of well at 50 feet below land surface

BORING WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-27		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA Off Site 12th Street Sidewalk			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/12/02-4/12/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	Concrete			
5	Brown fine to coarse SAND, trace Brick, trace Concrete, trace Gravel; dry to wet (fill)			
10	Brown fine to coarse SAND, little Gravel; wet (fill)	1.7		
15	Brown fine to coarse SAND, little Gravel; wet (fill)	6.9		
15	Brown fine to coarse SAND, little Gravel, trace Silt; wet (fill)	3.1		
15	PEAT and Green-Gray CLAY; moist	2.7		Thickness of peat interval interpreted from previous Site investigation
20	Brown fine SAND, little Silt, trace Gravel, trace coarse Sand; wet	17.7		
25	Brown fine SAND, little Silt; wet	32.4		
30	Brown fine SAND, little Silt, trace coarse Sand; wet	3.8		
35	Brown fine SAND, little Silt, trace coarse Sand; wet	5.2		
40	Brown fine SAND, some Silt; wet	3.8		
45	Brown fine SAND, some Silt; wet	7.1		
50				Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-29		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA On Site Along Pathmark Wall	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		START-FINISH DATE 4/25/02-4/25/02	
		TOP OF WELL CASING		TOTAL LENGTH 25.0	
		TOP & BOTTOM SCREEN		DIA. 4-inch	
				SLOT SIZE 20-Slot	
				GW SURFACE	
				GRAVEL PACK #2	

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Brown coarse to fine SAND, trace Silt, trace Brick, trace Gravel; dry to moist (fill)			
10	Black fine to coarse SAND, little Wood, trace Gravel; moist to wet (fill)		301	Odor and black staining
15	CONCRETE and WOOD; wet (fill)			Black staining
20	Brown fine to medium SAND, little Silt, trace Gravel, wet (fill)		12.8	Black staining
25	Green to gray CLAY and PEAT; moist			Thickness of peat interval interpreted from previous Site investigation
30	Gray fine SAND, little Silt, little Wood; wet		44.4	Black staining
35	Gray fine to coarse SAND, little Silt, trace Wood; wet		17.6	Odor and black staining
40	Gray fine SAND, some Silt, trace coarse SAND; wet		12.5	Odor and black staining
45	Gray to brown fine SAND, little Silt; wet		6.0	Odor
50	Gray to brown fine SAND, little Silt; wet		459	Odor
55	Brown fine to medium SAND, some Silt; wet		762	Odor and trace free product
60	Brown fine SAND, little Silt; wet		314	Odor

Bottom of well 60.5 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-30		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		On Site Along Pathmark Wall			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/26/02-4/26/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 8"	PID Values (ppm)	REMARKS
5	Cement	Brown coarse to fine SAND, trace Silt, trace Brick, trace Gravel; dry to moist (fill)			
10	Cement/Bentonite Grout	Brown coarse to fine SAND, little Gravel; moist (fill)	228		Odor and black staining
15	4-inch PVC Well Casing	Brown fine to coarse SAND, little Gravel, trace Wood, trace Brick; wet (fill)	5.7		
20	Bentonite Chips	Brown fine to medium SAND, trace Gravel, trace Silt; wet (fill)	6.2		
25		Brown fine SAND, little Silt, trace Gravel; wet (fill)	8.9		Odor and black staining
30		Brown fine SAND, little Silt, trace Gravel; wet (fill)	8.7		Odor and black staining
35		Gray fine to medium SAND, trace Silt, trace Peat; wet	10.4		Odor and black staining
40		Fine SAND, trace Silt; wet	22.2		Black staining
45		Brown PEAT; moist	13.3		Odor and black staining
50		Brown fine SAND, little Silt; wet	12.7		Odor and black staining
	20-Slot PVC Well Screen	Gray fine SAND, trace Silt; wet	17.1		Odor and trace free product
	#2 Sand	Brown fine SAND, little Silt; wet	728		Odor, black staining, and free product
		Fine SAND, little Silt; wet	1067		Odor, black staining, and free product
		Fine SAND, little Silt; wet	840		Odor, black staining, and free product
	5-foot PVC Sump				
	Push on PVC Well Cap				

Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-31		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA On Site Along Pathmark Wall	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 4/29/02-4/29/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 35.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK
			/		#2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	6-Inch Locking Steel Protective Stand Pipe 4-Inch Locking Test Well Plug CEMENT Cement/Bentonite Grout Bentonite Chips	Brown coarse to fine SAND, trace Silt, trace Brick, trace Gravel; dry to moist (fill)			
5		Fine SAND, trace Silt; wet (fill)		945	Odor, black staining, and sheen
10	4-Inch PVC Well Casing				
15		Brown fine to medium SAND, trace Silt, trace Brick, trace Gravel, trace Wood, trace Coal Fragments; wet (fill) Brown fine to medium SAND, some Silt, trace Gravel; wet (fill) Brown fine to coarse SAND, little Silt, trace Gravel; wet (fill)	35.9 26.3		
20	20-Slot PVC Well Screen	Brown fine to coarse SAND, little Silt, trace Gravel; wet (fill) Brown PEAT; moist Brown fine to coarse SAND, little Silt, trace Gravel; wet Brown fine SAND, little Silt; wet	>2000 886 >2000 1349		Odor Odor, black staining, and trace free product Odor and free product
25	#2 Sand	Gray to brown fine SAND, little Silt, trace coarse SAND; wet	257		Odor and trace free product
30		Gray to brown fine SAND, little Silt, trace coarse SAND; wet	192		Odor and trace free product
35		Gray to brown fine SAND, little Silt, trace coarse SAND; wet	254		Odor and trace free product
40		Gray to brown fine SAND, little Silt, trace coarse SAND; wet	415		Odor and trace free product
45		Gray to brown fine SAND, some Silt; wet	785		Odor and trace free product
50	5-foot PVC Sump Push on PVC Well Cap				

Bottom of well 50 feet below land surface

BORING WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-32		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		On Site Along Pathmark Wall			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		START-FINISH DATE 4/30/02-4/30/02	
ELEVATION OF: (FT.)		GROUND SURFACE		TOP OF WELL CASING	TOP & BOTTOM SCREEN
					GW SURFACE
					GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	6-inch Locking Steel Protective Stand Pipe 4-inch Locking Test Well Plug CEMENT Cement/Bentonite Grout Bentonite Chips 4-inch PVC Well Casing	Brown coarse to fine SAND, trace Silt, trace Brick, trace Gravel; dry to moist (fill)			
10		Gray-brown fine to coarse SAND, trace Silt, trace Gravel; moist (fill)	21.1		
15		Gray-brown medium SAND, trace Silt, trace Gravel, trace coarse Sand; moist (fill)	13.8		Odor, sheen
20		Brown coarse to fine Sand, little Silt, trace Gravel; moist (fill)	6.5		Odor, trace black staining
25		Brown fine to medium SAND, little Silt, trace coarse Sand; wet (fill)	7.3		Odor
30		Brown fine to coarse SAND, little Silt; wet	15.3		
35		Gray-brown fine SAND, little Silt, trace coarse Sand; wet	36.0		Odor, sheen
40		Gray-brown fine SAND, little Silt, trace coarse Sand; wet	87.4		Odor, sheen
45		Gray-brown fine SAND, little Silt, trace coarse Sand; wet	118		Odor, sheen
50		Brown fine SAND, some Silt; wet	67.4		Odor
55		Brown fine to medium SAND, little Silt; wet	107		Odor
60		Brown fine SAND, some Silt; wet	68.9		Odor
65	5-foot PVC Sump Push on PVC Well Cap				
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BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02

Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-33		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				On Site Along Pathmark Wall	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		START-FINISH DATE 5/1/02-5/1/02	
		TOP OF WELL CASING		SLOT SIZE 20-Slot	
		TOP & BOTTOM SCREEN		GRAVEL PACK #2	
		MAT. SCH 40 PVC		TOTAL LENGTH 25.0	
		DIA. 4-inch		GW SURFACE	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	6-inch Locking Steel Protective Stand Pipe				
0	4-inch Locking Test Well Plug				
0	CEMENT	Brown coarse to fine SAND, trace Silt, trace Brick, trace Gravel; dry to moist (fill)			
5					
5		Brown fine to coarse SAND, little Silt; wet (fill)		0.0	
10	Cement/Bentonite Grout 4-inch PVC Well Casing				
10		Brown fine SAND, some Silt; wet (fill)		1.3	
15	Bentonite Chips				
15		Brown fine SAND, some Silt, trace coarse Sand, trace Gravel; wet (fill)		8.3	
20	#2 Sand				
20		Brown to Black stained fine to coarse SAND, trace Gravel; wet (fill)		0.0	Trace free product
25		Gray-brown fine to medium SAND, little Silt, trace Gravel; Wet		0.0	
25					
25		Brown fine SAND, little Silt, trace coarse Sand; wet		439	Odor
30	20-Slot PVC Well Screen				
30		Brown fine SAND, little Silt, trace coarse Sand; wet		7.2	Odor
35	Formation Collapse				
35		Brown fine SAND, some Silt; wet		18.4	
40					
40		Brown fine SAND, some Silt; wet		79.5	Odor
45	5-foot PVC Sump				
45		Brown fine SAND, some Silt, trace coarse Sand; wet		194	Odor
50	#2 Sand				
50	Push on PVC Well Cap				
50					
50					Bottom of well 49.5 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GDT 5/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-34		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA On Site Along 12th Street			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/3/02-5/3/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	6-inch Locking Steel Protective Stand Pipe				
0	4-inch Locking Test Well Plug				
5	Cement/Concrete	Brown fine to coarse SAND, little Silt, trace Gravel; moist to wet at approximately 7 ft bls (fill)		31.2	
10	Cement/Bentonite Grout	Brown fine to coarse SAND, trace Silt, trace Gravel; wet (fill)		10.3	
15	4-inch PVC Well Casing	Brown fine sand, little Silt, trace coarse Sand; wet (fill)		17.1	
15	Bentonite Chips	Green-gray CLAY and PEAT; moist		47.4	Thickness of peat interval interpreted from previous Site investigation Odor
20		Brown fine SAND, little Silt, trace coarse Sand; wet		26.9	Odor, sheen
25		Gray-brown fine SAND, little Silt, trace Gravel; wet		16.6	Odor
30	20-Slot PVC Well Screen	Gray-brown fine SAND, some Silt; wet		24.3	Odor
35	#2 Sand	Gray-brown fine SAND, some Silt, trace coarse Sand; wet		107	Odor, sheen
40		Brown fine SAND, little Silt; wet		126	Odor
45	5-foot PVC Sump	Brown fine SAND, little Silt; wet		134	Odor
50	Push on PVC Well Cap				Bottom of well 49 feet below land surface

BORINGWELL RECOVER-1.CPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-35		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				On Site Along 12th Street	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN: TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		GROUND SURFACE		START-FINISH DATE 5/6/02-5/8/02	
		TOP OF WELL CASING		TOTAL LENGTH 25.0	
		TOP & BOTTOM SCREEN		DIA. 4-inch	
				SLOT SIZE 20-Slot	
				GRAVEL PACK #2	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0	6-inch Locking Steel Protective Stand Pipe	Brown fine to coarse SAND, trace silt, trace gravel, trace brick; moist (fill)			
5	4-inch Locking Test Well Plug	Black fine SAND, trace Silt; moist to wet at approximately 5.5 ft bts (fill)		>2000	Odor, trace free product
10	Cement/ Bentonite Grout	Black fine SAND, little Silt; wet (fill)		>2000	Odor, free product
15	4-inch PVC Well Casing	Green-gray CLAY and PEAT; moist		872	Odor, free product
20	Bentonite Chips	Black to brown fine SAND and SILT; wet			
25		Brown to black fine SAND, some Silt, trace coarse Sand; wet		272	Odor
30	#2 Sand	Gray-brown fine SAND, little Silt, trace Clay, trace Peat; wet		311	
35	20-Slot PVC Well Screen	Brown fine SAND, little Silt; wet		182	Odor
40		Brown fine SAND, little Silt; wet		158	Odor
45	Formation Collapse	Brown fine SAND, little Silt, trace coarse Sand; wet		552	Odor, trace free product
50	5-foot PVC Sump	Gray-brown fine to medium SAND, little Silt; wet		918	Trace free product
55	#2 Sand	Gray-brown fine to medium SAND, little Silt; wet		723	Trace free product
60	Push on PVC Well Cap				
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WELL CONSTRUCTION LOG

WELL NO. RW-36		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				On Site Along 12th Street	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger		BOREHOLE DIAMETER 10-inches		DRILLING EQUIPMENT/METHOD CME-75 / HSA	
CASING MAT./DIA. SCH 40 PVC / 4-inch		SCREEN TYPE Slotted		SAMPLING METHOD 2" Split Spoon	
ELEVATION OF: (FT.)		MAT. SCH 40 PVC		TOTAL LENGTH 25.0	
GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM SCREEN	
				GW SURFACE	
				GRAVEL PACK #2	

Depth, feet	6-Inch Locking Steel Protective Stand Pipe	4-Inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, trace silt, trace gravel, trace brick; moist (fill)		94.3	Odor
10				Black fine SAND, some Silt; wet (fill)		199	Odor
15				Brown to black fine SAND, some Silt, trace Clay, trace Coal, trace Shells, trace Gravel; wet (fill)		8.7	Odor, trace free product
20				Black fine SAND, little silt; wet (fill)		35.0	Odor, trace free product, sheen
25				Brown to black fine to coarse SAND, little Silt, trace Gravel; wet (fill)		51.2	
30				Brown to black fine SAND, little Silt, trace Wood; wet (fill)		109	Odor
35				Brown to black fine to medium SAND, little Silt; wet (fill)		22.9	Odor
40				Grey-brown fine SAND, some Silt; wet (fill)		5.0	
45				Brown fine to coarse SAND; wet (fill)			Thickness of peat interval interpreted from previous Site investigation
50				Green-grey CLAY and PEAT; moist		>2000	Odor, trace free product
				Grey to black fine to coarse SAND, little Silt, trace Gravel; wet		111	Odor, trace free product
				Grey to black fine to coarse SAND, little Silt, trace Gravel; wet		>2000	Odor, trace free product
				Grey-brown fine to coarse SAND, little Silt, trace Gravel; wet		>2000	Odor, trace free product
				Grey-brown fine to coarse SAND, little Silt, trace Gravel; wet		>2000	Odor, trace free product
				Brown fine SAND, little Silt, trace coarse Sand; wet		1785	Odor, trace free product
				Brown to light brown fine SAND, some Silt; wet		708	Odor, free Product

Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 5/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-37		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA On Site Along 12th Street			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/9/02-5/9/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM SCREEN	GW SURFACE
(FT.)					GRAVEL PACK #2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, trace Gravel, trace Silt, trace Brick; moist to wet (fill)			
10				Brown to black fine to medium SAND, little Silt, trace Gravel, trace Coal; wet (fill)		1271	Odor
15				Brown-green to black fine SAND, little Silt, trace Gravel, trace Wood; wet (fill)		1197	Odor
20				Brown fine to medium SAND, trace Gravel, trace Silt; wet (fill)		380	
25				Brown-green fine SAND, some Silt; wet (fill)		158	
30				Green-grey CLAY and PEAT; moist		252	Thickness of peat interval interpreted from previous Site Investigation
35				Brown fine SAND, little Silt, trace coarse SAND, trace Gravel; wet		207	Odor
40				Brown fine SAND, little Silt, trace coarse SAND; wet		664	Odor
45				Brown fine SAND, little Silt, trace coarse SAND; wet		775	Odor
50				Brown fine SAND, little Silt; wet		1345	Odor
55				Brown fine SAND, little Silt; wet		1489	Odor, trace free product
60				Brown fine SAND, little Silt; wet		1183	Odor, trace free product

5-foot PVC Sump

Push on PVC Well Cap

Bottom of well at 50 ft bls

BORINGWELL RECOVER-1.GPJ ROUX GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-38		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA On Site Along 12th Street			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/10/02-5/10/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)		GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE
					GRAVEL PACK #2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown fine to coarse SAND, trace Gravel, trace Silt, trace Brick; moist (fill)			
10				Brown fine to coarse SAND, little Silt, trace Gravel; moist (fill)		35.4	Odor
15				Brown fine to coarse SAND, little Silt, trace Gravel; moist (fill)		867	Odor
20				Brown fine SAND, little Silt, trace coarse Sand; wet (fill)		>2000	Odor
25				Brown fine SAND, little Silt, trace coarse Sand; wet (fill)		6.9	Thickness of peat interval interpreted from previous Site investigation
30				Green-gray CLAY and PEAT; moist		98.6	Odor
35				Gray-brown fine to coarse SAND, little Silt, trace Gravel; wet		381	Odor
40				Gray-brown fine to coarse SAND, little Silt, trace Gravel; wet		874	Odor
45				Gray-brown fine to coarse SAND, little Silt, trace Gravel; wet		1341	Odor
50				Gray-brown fine to medium SAND, little Silt; wet		1033	Odor, trace free product
55				Brown fine SAND, some Silt; wet		1271	Odor, trace free product
60				Gray-brown fine to medium SAND, little Silt; wet			

5-foot PVC Sump

Push on PVC Well Cap

Bottom of well 50 feet below land surface

BORINGWELL RECOVER-1.GPJ ROUX.GDT 6/11/02



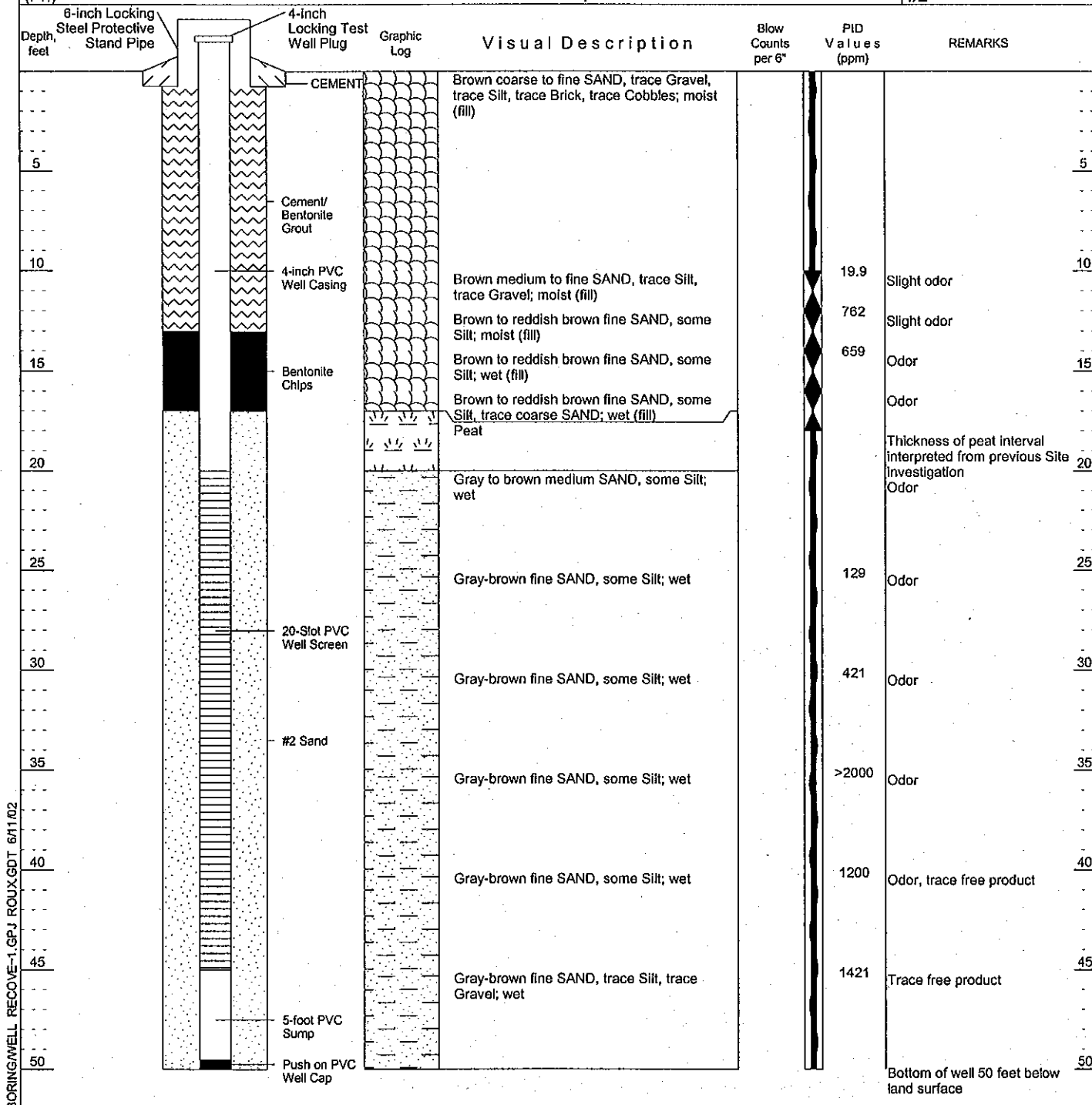
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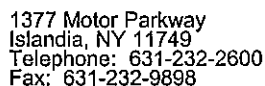
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WELL CONSTRUCTION LOG

WELL NO. RW-39		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY R. Kovacks		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				On Site Along 12th Street	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/13/02-5/13/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2





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Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0				Brown to black stained fine to medium SAND, little Silt, trace coarse SAND, trace Gravel; wet (fill)		17.1	
5							Odor
10				Gray-brown fine SAND, some Silt; wet (fill)		10.1	Odor
15				Brown fine to medium SAND, little Silt; wet (fill)		22.8	Odor
				Brown fine to coarse SAND, little Silt; wet (fill)		21.3	Odor
20				Green-gray CLAY and PEAT; moist			Thickness of peat interval interpreted from previous Site Investigation
				Gray-brown fine to medium SAND, little Silt; wet		29.2	Odor
25				Gray-brown fine SAND, some Silt; wet		35.1	
30				Grey-brown fine SAND, some Silt; wet		65.2	Odor
35				Grey-brown fine SAND, some Silt; wet		149	Odor
40				Grey-brown fine SAND, some Silt; wet		78.1	Odor, trace free product
45				Brown fine SAND, little Silt; wet		522	Odor, trace free product
50							Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-41		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY D. Moss		GEOGRAPHIC AREA Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		OFF SITE 12th Street Sidewalk			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/16/02-5/16/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Cement	Brown to black stained fine to medium SAND, little Silt, trace coarse SAND, trace Gravel; wet (fill)			
10	Cement/Bentonite Grout 4-inch PVC Well Casing	Brown fine to coarse SAND, trace Silt, trace Gravel; wet (fill)		166	Odor
15	Bentonite Chips	Brown fine to coarse SAND, trace Silt, trace Gravel; wet (fill)		1526	Odor
20		Brown fine to coarse SAND, trace Silt; wet (fill)		713	Odor
25		Green-gray CLAY and PEAT; moist			Thickness of peat interval interpreted from previous Site Investigation
30	20-Slot PVC Well Screen	Brown fine SAND, little Silt, trace coarse Sand; wet		23.5	Odor
35	#2 Sand	Brown to black fine SAND, little Silt, trace coarse Sand; wet		1029	Odor
40		Brown fine SAND, little Silt, trace coarse Sand; wet		1785	Odor, trace free product
45		Brown fine SAND, little Silt, trace coarse Sand; wet		>2000	Odor, trace free product
50	5-foot PVC Sump Push on PVC Well Cap	Brown fine to medium SAND, little Silt; wet		1527	Odor, trace free product
		Brown fine to medium SAND, little Silt; wet		>2000	Odor, trace free product
					Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-42		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/17/02-5/17/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown to black stained fine to medium SAND; little Silt, trace coarse SAND, trace Gravel; wet (fill)			
10							
15				Brown to black fine to medium SAND, trace Gravel, trace Silt, trace Coarse Sand; wet (fill) PEAT; moist	>2000	Odor	Thickness of peat interval interpreted from previous Site investigation
20				Brown fine to coarse SAND, trace Silt, trace Gravel; wet	>2000		
25				Gray-brown fine to medium SAND, little Silt, trace coarse Sand; wet	>2000	Odor	
30				Gray-brown fine to medium SAND, little Silt, trace coarse Sand; wet	520	Odor	
35				Gray-brown fine to medium SAND, little Silt, trace coarse Sand; wet	54.9	Odor, free product	
40				Gray-brown fine SAND, little Silt, trace coarse Sand; wet	280	Odor, free product	
45				Gray-brown fine to coarse SAND, little Silt; wet	>2000	Odor, free product	
50				Gray-brown fine to coarse SAND, little Silt; wet	>2000	Odor, free product	

5-foot PVC Sump
Push on PVC Well Cap

Bottom of well 50 feet below land surface

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02



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WELL CONSTRUCTION LOG

WELL NO. RW-43		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue			
APPROVED BY G. Tyers		LOGGED BY M. Kroll		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA Off Site 12th Street Sidewalk			
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/20/02-5/20/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOP & BOTTOM SCREEN	GW SURFACE
(FT.)					GRAVEL PACK #2

Depth, feet	6-inch Locking Steel Protective Stand Pipe	4-inch Locking Test Well Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5				Brown to black stained fine to medium SAND, little Silt, trace coarse SAND, trace Gravel; wet (fill)			
10							
15				Grey to light brown fine to medium SAND, some Silt, little Clay; wet	268		Slight odor, some staining
20				PEAT	>2000		Slight odor, some staining
25				Brown fine to coarse SAND, some Silt; wet	>2000		
30				Brown fine to medium Sand and Silt, some Clay, trace Gravel; wet	907		Odor
35				Brown fine to medium Sand and Silt, some Clay, trace Gravel; moist	1235		Odor
40				Brown fine to coarse SAND, some Silt and Clay; wet	>2000		Odor
45				Brown fine to coarse SAND, some Silt and Clay; wet	1226		Odor
50				Brown fine to coarse SAND, some Silt and Clay; wet	>2000		Odor
55				Brown fine to coarse SAND, some Silt and Clay; wet	>2000		Odor

BORING/WELL RECOVER-1.GPJ ROUXGDT 6/11/02

5-foot PVC Sump

Push on PVC Well Cap

Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-44		NORTHING		EASTING	
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site				LOCATION 124-136 2nd Avenue	
APPROVED BY G. Tyers		LOGGED BY D. Moss		Brooklyn, New York	
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams				GEOGRAPHIC AREA Off Site 12th Street Sidewalk	
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA	SAMPLING METHOD 2" Split Spoon	START-FINISH DATE 5/21/02-5/21/02	
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	MAT. SCH 40 PVC	TOTAL LENGTH 25.0	DIA. 4-inch	SLOT SIZE 20-Slot
ELEVATION OF: (FT.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	GRAVEL PACK #2

Depth, feet	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Brown fine to coarse SAND, trace Silt and Gravel; wet (fill)		32.7	
10	Brown gray fine to medium SAND, little Silt; wet		0.0	
15	Brown PEAT and green-gray Clay		3.7	
20	Brown fine SAND, some Silt, trace coarse Sand and Gravel; wet		41.7	
25	Brown fine SAND, some Silt; wet		45.3	Organic odor
30	Brown fine SAND, little silt, trace coarse Sand; wet		77.2	Odor
35	Brown fine SAND, some Silt; wet		137	Odor
40	Brown fine SAND, some Silt; wet		87.6	Odor, free product
45				
50				

6-inch Locking Steel Protective Stand Pipe

4-inch Locking Test Well Plug

CEMENT

Cement/Bentonite Grout

4-inch PVC Well Casing

Bentonite Chips

20-Slot PVC Well Screen

#2 Sand

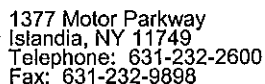
5-foot PVC Sump

Push on PVC Well Cap

Graphic Log

BORING/WELL RECOVER-1.GPJ ROUX.GDT 6/11/02

Bottom of well 50 feet below land surface



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WELL CONSTRUCTION LOG

WELL NO. RW-2S	NORTHING	EASTING
PROJECT NO./NAME 92401Y03 / FC Gowanus former MGP Site		LOCATION 124-136 2nd Avenue
APPROVED BY G. Tyers	LOGGED BY D. Moss	Brooklyn, New York
DRILLING CONTRACTOR/DRILLER Aquifer Drilling & Testing, Inc. / L. Adams		GEOGRAPHIC AREA Off Site 12th Street Sidewalk
DRILL BIT DIAMETER/TYPE 6.25-in. / Auger	BOREHOLE DIAMETER 10-inches	DRILLING EQUIPMENT/METHOD CME-75 / HSA
CASING MAT./DIA. SCH 40 PVC / 4-inch	SCREEN: TYPE Slotted	SAMPLING METHOD 2" Split Spoon
ELEVATION OF: (FT.)		START-FINISH DATE 4/22/02-4/22/02
GROUND SURFACE		
TOP OF WELL CASING		
TOP & BOTTOM SCREEN		
GW SURFACE		
TOTAL LENGTH 10.0		
DIA. 4-inch		
SLOT SIZE 20-Slot		
GRAVEL PACK #2		

